

THE CHARLESTON MUSEUM

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ROYAL ONTARIO MUSEUM

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ANNUAL REPORT

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100 QUEEN'S PARK, TORONTO 5, ONTARIO

Report of the Director of the Royal Ontario Museum of Archaeology

The transfer of the Sigmund Samuel Canadiana Collection to the new Canadiana and Archives Building at the end of the year 1950-1 freed the gallery in which it had been housed. This gallery had been built and given to the Museum by Dr. Samuel in 1940, and in accordance with his wishes it has been retained for a Canadian collection. The French-Canadian Collection has been moved there, and was opened to the public in May, 1952. The built-in room from St. Jean Port Joli has been reinstalled at the southern end of this gallery, which also contains French-Canadian furniture and sculpture and Canadian silver. The Mexican collection has been reorganized, and the new display is planned to be more useful for teaching. Exhibits in the first Egyptian gallery have been catalogued and rearranged; the Ontario Textile exhibit is changed periodically.

Space for the housing of collections not on exhibit and for storage of material remains a difficulty. It appears that the Museum's tenure of part of the unoccupied space in Flavelle House may soon be ended, and an answer to the problem that will then arise has not yet been found. Within the building the closing off of a further part of the Southwest gallery was approved and is in progress.

The policy of special exhibitions lasting two months each has been found too demanding on our limited resources. During the past year we have experimented with three such exhibitions only. These have been "Ontario Archaeology: Recent Excavations," "Heads Up" (an exhibition of head-dresses and hats from all departments of the Museum), and the summer exhibition "Present Day Pottery: America, England and Denmark." As part of the same policy a special individual display, lasting a month, is made of one fine object from each department in turn. This began in December, 1951, and has proved a great success.

An exhibition of Museum material was held in connection with the Shakespeare Festival at Trinity College in the summer of 1951. The Society of Canadian Painter-Etchers and Engravers held its annual exhibition in the Museum in March.

The policy was adopted by the Museum Board in January of having two joint curators in the Ethnology Department; they are Professor McIlwraith and Mr. K. E. Kidd. Mr. Kidd has been absent this year on his Guggenheim fellowship. He has reported that the amount of material connected with his subject (European trade goods in North America) is much greater than he expected, and that he cannot hope to complete his research during these twelve months. In the Near Eastern Department Miss Margaret Ruttiman was appointed Assistant to replace Mrs. Kimberly. In the Greek and Roman Department Mrs. Andrea Nagy was appointed on a temporary basis to replace Miss Hay, who had resigned on her marriage.

During the summer of 1951 Mr. Russell Harper carried out a small excavation on Washburn Island at the northern end of Lake Scugog. The excavation was financed by the University Department of Anthropology. It has added materially to our knowledge of the Point Peninsula Indian culture. A review was made of the Ontario Textile project as a whole. The preliminary stage of this is now over, and it has become clear what work has to be done and what it will involve; the samples so far taken enable us to form some idea of how much work there will be. During the next stage the Museum will take over the work entirely, hoping to receive the textile industry's support again when the final stage of publication is reached. Field work this year has been principally in the southwestern area of the province.

Miss Needler and her assistant have been engaged in preliminary research for the writing of a handbook to the Egyptian Collection. Mr. Harper has continued work on his project on Roman glass. Miss Fernald has done research on a group of Chinese Sung mortuary pillows in the Museum, and on the identification of the

horses on the early tomb tiles. Her work on the Wei figurines has been held up by the lack of necessary books, and more recently because she was engaged in the preparation of a large and well-illustrated book on Chinese art and the Museum's collection as a whole. The Museum received for this a most munificent grant of \$15,000 from the J. P. Bickell Foundation Fund.

Lectures have been given by members of the Museum staff in the Department of Art and Archaeology. Courses or single lectures were also given in the University Extension service, to students of the Ontario College of Art, the Ryerson Institute of Technology, and many other adult and student groups. Mr. Spendlove was invited for the second year in succession to visit Williamsburg, where he gave a lecture on English Delft.

Acquisitions include gifts of English, French, and Far Eastern pottery and porcelain from the H. V. Blackstock Estate; English silver and furniture from Mrs. F. F. Dalley; further pieces of English and Continental silver from Mrs. F. N. G. Starr; and Chinese and Japanese textiles and costume from Mrs. Edgar Stone. Further pieces of Canadian furniture were bought with money given for this purpose by the R. Laidlaw Lumber Company Limited. Objects purchased during the year include a group of French Gothic ivories, a fragment from an Achaemenid relief, and a pair of Mycenaean gold bracelets.

The Sigmund Samuel Collection of Canadiana has been reinstalled in the new building in Queen's Park. The collection has continued to increase during the year; the most notable acquisition has been a sketch-book used by Cornelius Krieghoff during his years in Montreal, about 1850.

G. BRETT

Report of the Director of the Royal Ontario Museum of Geology and Mineralogy

Most of the research carried out by the Museum during the past year has centred around the study of Chubb Crater, Ungava, Quebec, the first investigation of which was made by this Museum in 1950. This further study was made possible by a generous grant from the Research Committee of the National Geographic Society, Washington, D.C. An expedition entitled The National Geographic Society-Royal Ontario Museum Expedition was organized by the Director with personnel as follows: Dr. V. B. Meen, leader; N. V. Martin, biologist (on leave of absence from the Department of Lands and Forests, Ontario); J. A. C. Keefe, M.A., geophysicist; L. I. Cowan (Museum preparator); F. W. Chubb (prospector); and R. H. Stewart (staff photographer, National Geographic Society). The party was stationed at the crater from July 25 to August 20. Laboratory studies succeeded the field work. Data obtained furthered the belief that the crater is of meteoritic origin and as such is the largest so far known on earth.

A brief reconnaissance was made of a large crater-like depression in north central Algonquin Park. In view of the fact that a federal government party was already on the site, no report of our findings has been made public.

The rearrangement of exhibit cases, the reorganization of material and installation of new exhibits is continuing in the west Geology gallery under the direction of Mr. W. M. Tovell, Curator of Geology. Much favourable comment has been received from visitors to the gallery.

Further papers have been published by the Director on the subject of the research on Chubb Crater and he has lectured on the subject before many scientific, cultural, lay, and school audiences both in Canada and in the United States, including the Chicago Museum of Natural History, Chicago, Ill.; National Geographic

Society, Washington, D.C.; American Geographical Society, New York City, N.Y.; Royal Ontario Museum, Toronto; National Museum of Canada, Ottawa; American Astronomical League, Rochester, N.Y.; Queen's University, Kingston; Hamilton Association for the Advancement of Arts, Letters and Science, Hamilton, Ontario; a joint meeting of the Royal Astronomical Society of Canada, Arctic Institute of North America, and Sigma Xi, Montreal, Que.; University of Toronto Women's Club; American Association of University Women, Buffalo, N.Y.; and numerous branches of the Canadian Institute of Mining and Metallurgy, high school audiences, service clubs, church organizations, radio and television audiences.

The interest of the public in geology and mineralogy is continuing to increase. This is apparent in the increasing activities of the Walker Mineralogical Club, which holds many of its monthly meetings in the Museum, and on the executive of which the Director acts in an advisory capacity; and in the rapid growth of the geology and mineralogy groups in the Junior Field Naturalists Club which meets in the Museum under the leadership of Miss Muriel Ward, secretary, and Mrs. Helen Bush, a part-time teacher in the Division of Education. The membership in these groups has increased most remarkably during the year.

The collections of the Museum have been of considerable use for research not only within the Museum but when sent on loan to other institutions. Those so helped are: the Department of Geological Sciences and the Department of Physics, University of Toronto; the Department of Geological Sciences, Queen's University; the Department of Mineralogy, Harvard University; the Department of Mineralogy and Petrography, United States National Museum, Washington, D.C. In addition many of the specimens have been studied by members of the mining industry.

The Museum has continued its policy of exchanging material with other institutions and individuals, and in addition many specimens have been obtained through presentation and purchase.

The most notable acquisitions are:

Presentations

Analcime from Keweenaw Peninsula, Michigan; asbestos in serpentine from Sudbury district, Ontario; calcite with pyrite, marcasite stalactite, manganese-bearing calcite, from Santa Eulalia, Mexico; native copper and cuprite from Britannia Beach, B.C.; erythrite from southern Morocco; jade from Kobuk, Alaska; selenite from Flin Flon, Man.. By Mr. Frank Ebbutt, Toronto.

Axinite from Hope-Princeton highway, British Columbia. By Dr. Robert M. Thompson, Vancouver, B.C.

Fluorite crystals from Niagara Falls, Ont. By Mr. W. E. Troup, Vineland, Ont.

Hematite from Bolivar State, Venezuela. By Mr. M. B. Mairs, Toronto.

Iron-nickel droplets from Canyon Diablo, Arizona. By Dr. H. H. Nininger, Flagstaff, Arizona.

Basaluminite, hydrobasaluminite from Northampton, England. By Mr. D. H. Gorman, Toronto.

Muscovite (phantom) from Purdy Mine, Ontario. By Mr. John Edwards, Toronto.

Nephrite from Split Rock, Wyoming. By Dr. H. H. Hammell, Tecumseh, Michigan.

Pitchblende from District of Algoma, Ontario. By Ranwick Uranium Mines per Dr. E. W. Nuffield, Toronto.

Quartz Crystal (twinned) from Lyndhurst, Ont. By Quartz Crystal Corporation, Lyndhurst, Ont.

Selenite Twins from Cypress Lake, Saskatchewan. By Dr. L. S. Russell, Ottawa, Ont.

Tourmaline from Villeneuve Mines, Quebec. By Mr. C. D. Salkeld.

Tremolite from Wilberforce, Ont. By Mr. G. G. Waite, Toronto.

Umgangite from near Goldfields, Sask. By Dr. S. C. Robinson, Ottawa.

Exchanges

Autunite from Portland, Connecticut; barite crystal from Dufton, England; danburite from San Luis Potosi, Mexico; destinezite from Prague, Czechoslovakia; emerald in schist from Poona, Australia; fuchsite from Albany County, Wyoming; groutite from Ironton, Minnesota; ilmenite from Arendal, Norway; kyanite from Minas Geraes, Brazil; meteoritic iron, Odessa, Texas; parsettinsite from Chiavari, Italy; pyroxene from Outokumpu, Finland; silver from Shoshone County, Idaho; tektite from Luzon, Phillipine Islands; vermiculite from Palabora, Union of South Africa. With Ward's Natural Science Establishment Inc., Rochester, N.Y.

Munterite from Valcea, Roumania; pennantite from Benallt Mine, Wales; ransatite from Bliaberg, Sweden; stellerite from Gishu Mine, Korea. With British Museum, London, England.
Magnetite with serpentine asbestos from Kirkwood, Pennsylvania. With Franklin and Marshall College Museum per Mr. Harry E. Ranck, Lancaster, Pennsylvania.
Sphene crystals from Monmouth Township, Ontario. With Mr. David Grant, Toronto.
Nephrite jade from Thompson River, British Columbia. With Major E. D. Taylor, Ottawa.

Purchases

Allophane from Socorro County, New Mexico. From Schortmann's Minerals, Easthampton, Mass.
Astrophyllite from Khibina Tundra, U.S.S.R.; colusite from Butte Montana; frankite from Bolivia; gahnite from Bosost, Spain; halotrichite from Alameda County, California; rutiled quartz from Brazil. From Ward's Natural Science Establishment Inc., Rochester, N.Y.
Cairngorm sphere. From Mr. A. S. Fuller, Toronto.
Euclase crystal from Minas Geraes, Brazil. From Inter-Ocean Trade Company, New York, N.Y.
Garnet from Ceara, Brazil. From Mr. Hugh A. Ford, New York, N.Y.
Malachite from Bisbee, Arizona. From Mrs. M. J. Elsing, Tucson, Arizona.

V. B. MEEN

Report of the Director of the Royal Ontario Museum of Zoology and Palaeontology

The functions of a museum of Zoology and Palaeontology are research (the acquisition of knowledge about animal life) and education (the dissemination of such knowledge).

In the field of research the Museum confines its attention primarily to the study of taxonomy, systematics, and distribution of various species of animals, with emphasis upon those occurring in Canada. Our collections have grown to such an extent that they have become the largest and most important in this country. These collections are divided among six well-defined divisions, namely, Mammalogy, Ornithology, Ichthyology and Herpetology, Entomology, Vertebrate Palaeontology, and Invertebrate Palaeontology. A well-trained scientific curator is in charge of each of these divisions, and he may have the assistance of an associate and/or assistant curator and a research assistant. During the past year many research projects were undertaken, some of which were completed and scientific papers have been produced presenting the data arising from studies based on our research collections.

Not only do the members of the scientific staff of the Museum carry on their own projects, but they co-operate with other research institutions in all parts of the world where a knowledge of our native fauna is needed. They also make arrangements to assist other research workers who may wish to borrow material from, or carry out research projects within, our institution.

The activities of the Museum in the field of education may be divided into two distinct parts. In the first part, assistance is given to both the teachers and the students in primary and secondary schools involved in the study of Zoology. Our public galleries are intended not only to exhibit various kinds of animals but by means of attractive displays under the direction of the Chief of the Division of Art and Exhibits, to bring certain scientific facts to the attention of the layman. In addition to this, the Museum carries on a publication programme in the form of handbooks, leaflets, and major book-sized publications, the purpose of which is to pass on to those interested what information we have with regard to the fauna of Canada. In this regard I should like to thank Mr. W. H. Clarke of Clarke, Irwin & Company Limited for his kind assistance in producing book-sized publications dealing with various groups of animals to be found not only in Ontario but in the whole of eastern Canada.

The second part of our educational activities is concerned with co-operation with and assistance to departments of the University. The scientific personnel of the Museum is ready and willing to assist in any course work which may be desired for

a particular department of the University, as requested by the Head of that Department, through the office of the Director. The curatorial staff, particularly those members holding a Doctor of Philosophy degree, give various university courses both in the undergraduate and in the graduate schools. Some members of the staff have graduate students working under their supervision on theses dealing with certain phases of systematic zoology with the aim of fulfilling the partial requirements towards the Master of Arts or Doctor of Philosophy degree. The curatorial staff also assist in giving portions of various graduate or undergraduate courses so as to provide certain important information based on our research collections to the students. During the past year the curatorial staff presented three graduate and three undergraduate courses to the students of the Department of Zoology. It also served on examination committees for students qualifying for the M.A. or Ph.D. degrees.

In addition to the work outlined above, the staff of the Museum assists government departments and other institutions with problems pertaining to the identity of animals. An identification service is also carried on for the layman, involving the determination of many hundreds of specimens each year. During the past year between 700 and 800 specimens were identified as a service to the public alone.

In order to carry out the many and varied activities of our Museum it is necessary to have a large and well-trained staff. At the present time the Museum of Zoology and Palaeontology employs twenty-three full-time workers and six part-time assistants. Of the permanent full-time personnel three individuals hold the Ph.D. degree, one an M.A., and one a B.Sc. degree.

Mr. T. B. Kurata, B.Sc., retires at the end of the present university year, after thirty-eight years of continuous service. Mr. Kurata will be replaced by Mr. G. W. Wiggins, M.A., as Assistant Curator in the Division of Entomology.

During the past year many hundreds of specimens of considerable scientific importance were added to our research collections. Many scientific and popular publications appeared in various scientific journals and popular magazines. A book-sized publication dealing with the amphibians of eastern Canada by Mr. E. B. S. Logier was published by Clarke, Irwin & Company. Manuscripts for two book-sized publications have been completed and we anticipate their publication during the next university year. Members of the curatorial staff have received important appointments in various outstanding scientific associations.

In all these accomplishments the Director desires to express his appreciation to Mr. Robert Fennell, Chairman of the Museum Board, and to the various members of the Museum Board, for their continued interest in the work of our Museum.

F. A. URQUHART

Report of the Supervisor of the Division of Education, Royal Ontario Museum

During the last five years there has been a gradual increase in the numbers from out-of-town schools who visit the Museum. We think this increase is partly due to the fact that the provincial Department of Education is encouraging the formation of township areas and that this arrangement makes it easier to plan bus transportation. Both in the schools and at the Museum there is careful preparation for each individual school journey, in order that the visit may be, not simply an isolated adventure, but a worthwhile and enjoyable learning experience.

Each year we have a number of requests from schools and members of the general public for information about Museum objects, or supplementary material such as books, slides, films, and filmstrips.

This year four members of our staff spent the greater part of January and February in visiting schools which are too remote to make a day's visit to Toronto. In January they visited the Districts of Algoma and Sudbury, and in February the

Districts of Southern Nipissing, Parry Sound, and Muskoka. A quotation from a teacher's evaluation sheet will show the value of the visit to the Burks Falls High School. "Some objects that were examined were drawn in notebooks, named, and the use of the articles described. A brief account of the visit made by the Museum representative was written by a senior pupil for the local newspaper."

Ten travelling cases were circulated in the Districts of Nipissing, Timiskaming, Rainy River, and Kenora; one case was sent as far as the Indian School at Moose Factory. This quotation from the letter of the Inspector of Public Schools at Haileybury indicates the use which can be made of the Museum cases. "I took the final two cases to Latchford a week ago today. They were having a grand finale by inviting the whole community in on Sunday afternoon to view the complete exhibit displayed in three of the classrooms of the school."

This year the theme for the children's Saturday Morning Club was "Adventures in Living—Peoples of the World." Again we had an enrolment of more than 200 children, and were very glad to have the help of volunteer students from the University and the Ontario College of Art as well as the Normal School. These volunteers make a contribution to the Club, and themselves learn about teaching techniques and the use of art materials.

In co-operation with the University Department of Extension five adult courses were given at the Museum. The average registration was lower than last year and we are therefore planning next year's courses even more carefully, so that each may appeal to some group of the general public. More consideration is being given to publicity.

Courses were planned for the students of the Ryerson Institute. In addition special programmes have been arranged for students in the provincial Normal Schools, the Ontario College of Education, teachers' summer courses, and for York Township teachers.

Unfortunately the T.T.C. strike interrupted our programme of documentary films for the general public on Sunday afternoons. However, when we showed excellent films like *The Loon's Necklace* and *Beaver Valley*, it was necessary to repeat the programme. It is interesting to note that many individuals in the audience were New Canadians.

This year a good deal of our time devoted to research was given to two specific projects: a new gallery display of models of the pioneer life in Ontario; and, in co-operation with the National Film Board, the production of an Eye Witness Film of the Museum.

Work and research has been carried on in other museums: the National Museum in Ottawa, the Museum of Fine Arts in Montreal, and the museums of Boston and Detroit. One staff member has been given leave of absence for study and travel in England and other European countries this summer. Our Division was represented at the meetings of the Ontario Education Association and the Ontario Historical Society. We are much interested in the teaching of local history and one of our members is working on the Museums Committee of the York Pioneer and Historical Society.

The Toronto Board of Education has increased its grant for this calendar year from \$5,600 to \$6,600. This increase and additional aid from the Ontario Department of Education make it possible for us to keep pace with rising salaries.

The Parks Department of the City of Toronto continues to give its annual grant of \$1,000; this sum helps a great deal with the operating expenses of the Saturday Morning Club. We are grateful for this financial support, but equally important is the co-operation of the administrators and teachers not only of Toronto but of the province as a whole.

Our programme in the Division of Education depends on the interest and support not only of the staffs of the Museums, but also of other educational agencies or groups. We should like to express our thanks to the scientific staffs of the Museums and to the maintenance and guard staff of the building.

ROYAL ONTARIO MUSEUM ATTENDANCE
July 1, 1951-June 30, 1952

	<i>No. of groups</i>	<i>No. of individuals</i>
A. <i>Using R.O.M. galleries and studies:</i>		
1. General public		193,583
2. School Classes		
(a) Toronto	851	24,378
(b) Province		
Museum	861	17,973
Teachers' trips	373	13,901
(c) R.O.M. staff	13	241
(d) Unconducted	191	5,304
TOTAL	2,289	61,797
3. Groups other than schools		
(a) Ontario College of Art	442	10,764
(b) Extension	176	9,168
(c) R.O.M. staff	11	346
(d) Unconducted	69	1,695
(e) University of Toronto	558	9,247
TOTAL	1,256	31,220
B. <i>Using theatre and lecture rooms:</i>		
1. University of Toronto	1,303	117,838
2. R.O.M. sponsored	47	5,283
3. Un-sponsored	200	53,779
TOTAL	1,550	176,900
C. <i>Using Canadiana Gallery, Archives Building</i>		15,241
SUMMARY:		
General public		193,583
School Classes	2,289	61,797
Groups other than schools	1,256	31,220
Using theatre and lecture rooms	1,550	176,900
Using Canadiana Gallery, Archives Building		15,241
TOTAL	5,095	478,741

C. I. STEELE

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